								-		
Form PTO-144	19				DEPARTMENT OF COMMERCE ENT AND TRADEMARK OFFICE	ATTY. DOCKET N MI22-1839	10.	SER	IAL NO.	4712
	I	IST C	OF ART CITED		LICANT	APPLICANT Farnworth et al.			1	- y
						FILING DATE		GRO	^{UP} 372	9
					U.S. PATENT DOCUMENTS					
*Examiner Initial		Docu Numl		Date	Name		Class	Subclass	Filing If App	Date ropriate
les	AA	6,063	3,701	05/16/00	Kuwazaki et al.					
	АВ	5,899	7,737	05/04/99	Trabucco			-		
	AC	5,763	,854	06/09/98	Dittman et al.		_			
	AD	5,762	.,258	06/09/98	Le Coz et al.		_	_		
	AE	5,495	,089	02/27/96	Freedman et al.					
	AF	5,431	,332	07/11/95	Kirby et al.			_		
	AG	6,162	2,661	12/19/00	Link					
	AH	6,056	5,190	05/02/00	Foulke et al.					
	AI	5,839	,641	11/24/98	Teng			J		
	AJ	5,655	,704	08/12/97	Sakemi et al.					
no	AK	5,620),927	04/15/97	Lee		-	_		
					FOREIGN PATENT DOCUMENT	rs				
		Docu		Date	Country		Class	Subclass	Trans	slation
		Numl	ber						Yes	No
un	AL	wo	99/17593	04/08/99	PCT		< <u></u>	J		
	AM	8-118	3005 A	05/14/96	Japan					
DOT	AN	NL 1	007949	01/05/98	Netherlands	•				
	AO									
	AP									
			от	HER REFERE	NCES (including Author, Title, Date,	Pertinent Pages, Etc.)	ı			
Kes -	AR		Kasulke et al., Sold	ler Ball Bumpe	r (SBB) - A Flexible Equipment for	FC, CSP, BGA and F	rinted Circuit	Boards/An	Innovative Solu	ition for,
			Solder Applicati	on Solder Ball	Bumper (SBB), Pac Tech Packaging	Technologies GmbH a	and Fraunhofe	r IZM, pp. 1	-8.	
	AS	_			-					
	AT	·			·					

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

EXAMINER

U.S. DEPARTMENT OF COMMERCE Form PTO-1449 ATTY. DOCKET NO. SERIAL/NO. PATENT AND TRADEMARK OFFICE MI22-1839 APPLICANT
Warren M. Farnworth et al. LIST OF ART CITED BY APPLICANT (Use several sheets if necessary) FILING DATE GROUP U.S. PATENT DOCUMENTS *Examiner Document Date Name Class Subclass Filing Date Initial Number If Appropriate 5,219,117 06/15/93 Lin AA ΑB 4,871,110 10/03/89 Fukasawa et al. AC 6,234,382 B1 05/22/01 Rischke et al. AD 5,750,199 05/12/98 Sakemi ΑE 5,164,566 11/17/92 Spletter et al. 4,661,192 AF 04/28/87 McShane Elliott 4,831,724 AG 05/23/89 ΑH 5,052,102 10/01/91 Fong et al. ΑI 5,479,703 01/02/96 Desai et al. 5,551,148 09/03/96 Kazui et al. AK 5,654,204 08/05/97 Anderson FOREIGN PATENT DOCUMENTS Date Class Subclass Document Country Translation Number No AL AM AN AO OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.) **CAR** AS ΑT EXAMINER DATE CONSIDERED 5 *EXAMINER: Initial if reference considered, whether r not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. to applicant. Include copy of this form with next communication

Form PTO-144	19				DEPARTMENT OF COMMENT AND TRADEMARK O		ATTY. MI22-	DOCKET NO	D.	SERI	AL NO 10/004	172
	L	IST O	F ART CITED (Use several sheets		JICANT		APPLI Warrer	CANT M. Farnwort	hetal.			
							FILING	G DATE		GRO	UP 37	29
					U.S. PATENT DOCU	JMENTS .						7
*Examiner Initial		Docus Numb		Date		Name			Class	Subclass	Filing If Appr	Date opriate
m	AA	5,941,	.449	08/24/99	Le Coz et al.					1		
	AB	5,782,	,399	07/21/98	Lapastora					-		
unt	AC	5,745.	,986	05/05/98	Variot et al.							
	AD	<u> </u>			<u>.</u>		···-					
	AE											
	AF		<u> </u>									
	AG											
	AH							,				
	AI											
	AJ										-	<u>-</u>
	AK											
	I			ſ	FOREIGN PATENT DO		'S		- D		ī	
		Docur Numb		Date	C	Country			Class	Subclass	Trans Yes	lation No
	AL											
	AM											
	AN											
	AO										_	
	AP											
			от	HER REFERE	NCES (including Author, Ti	itle, Date,	Pertinent	Pages, Etc.)				
	AR		_									
	AS								9			
										·		
	AT											
			<u> </u>									
EXAMINER			11/	//	DATE CO	NSIDERE	D	رسج	120/0	3		
*EXAMINER:	Initial if	reference	considered, whether	The Citation	is in conformance with MI	PEP 609;	Draw line	through citat	ion if not in	conformance	and not consi	dered.
Include copy o	f this form	with ne	ext communication 6	applicant.								

Fопа-PTO-1449				J.S. DEPARTMENT OF COMMERCE ATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO MI22-1839). 		AL NO. 04,172	
	OTF	LET OF ART CITED Use several sheets	BY APPLIC if necessary)	CANT	APPLICANT Warren M. Farnworth	h et al.			
/		, ma 55			FILING DATE October 9, 2001		GROU 3729		1
12	APR 1	Salar		U.S. PATENT DOCUMENTS	October 9, 2000		1 2/2:		
*Examiner Initial	& TRAN	FARMON	Date	Name		Class	Subclass	Filing I If Appro	
	AA								
	AB.								
	AC								
	AD						RE	CEIV	/FD
	AE							2 1 20	
	AF								
	AG						CHNOLO	GY CENT	ER R370
	АН								
	Al								
				FOREIGN PATENT DOCUMENTS	S				
		Document Number	Date	Country		Class	Subclass	Transl	
	AJ					 	 	Yes	No
	AJ AK						<u> </u>		
	AL								
	AM	-							
	AN	<u></u>					L		<u> </u>
			OTHER REFER	RENCES (including Author, Title, Date, F	Pertinent Pages, Etc.)				
w	AO	Yariv, Amnon, "Qua	antum Electronic	cs - Second Edition," @1967, 1975, by	John Wiley & Sons, In	ac., pages 176	ś-193.		
					·				
	AP	Yariv, Amnon, "Qua	intum Electronic	cs - Second Edition," @1967, 1975, by	John Wiley & Sons, Ir	nc., pages 300)-307.		,
	AQ	Eisberg et al., "Quar	ntum Physics of	f Atoms, Molecules, Solids, Nuclei, and	d Particles," @1974 by	John Wiley &	: Sons, Inc., p	age 316.	
nor	AR	Eisberg et al., "Quar	ntum Physics of	f Atoms, Molecules, Solids, Nuclei, and	d Particles," ©1974 by	John Wiley &	Sons, Inc., p	ages 425-433.	
Wiss -									
EXAMINER	h		1/1	DATE CONSIDEREI	5/3	30/9=	3		
*EXAMINER: copy of this fo	Initial if r	reference considered, whether of	no colation is	in conformance with MPEP 609; Draw	w line through citation is	not in confe	ormance and n	ot considered.	Include





ATTY, DOCKET NO. M122-1839

SERIAL NO. 10/004,172

LIST OF ART CITED BY APPLICANT (Use several sheets if necessary)

APPLICANT
Warren M. Famworth et al.

				U.S. PATENT DOCUMENTS					
Examiner Initial		Document Number	Date	Name	•	Class	Subclass	Filing Date	
NOT	м	6,412,685 B2	7/2/2002	Hertz et al.					
MIT	AB 2002/0045521 A1		4/11/2002	Farnworth et al.					
	AC								
	AD					•	<u> </u>		
	AE								
	AF			-					
			·	FOREIGN PATENT DOCUMENTS		T		1	
	7	Document Number	Date	Country		Class	Subclass	Trans Yes	lation No
	AG							1.03	.,,,
	АH								
	AJ								<u>L</u>
	AK								
	AL				· E	FCE	IVE)	
	АМ					ECE APR 2	1 2003		
٠.	AN				TEGU	HOLOGY	CENTEH	MS C	
	AO		-					<u> </u>	~

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

Sheet 1 of 1 U.S. DEPARTMENT OF COMMERCE ATTY. DOCKET NO. SERIAL NO. 10/004,172 PATENT AND TRADEMARK OFFICE M122-1839 APPLICANT LIST OF ART CITED BY APPLICANT Warren M. Farnworth et al. (Use several sheets if necessary) FILING DATE GROUP October 9, 2001 3729 U.S. PATENT DOCUMENTS Subclass Date Name Filing Date *Examiner Document Initial Number If Appropriate 5,977,512 11/02/99 Azdasht et al. 04/21/98 AB 5,741,410 Tsurushima 01/18/94 Odashima et al. AC 5,279,045 AD 5,159,171 10/27/92 Cook et al. AE AF AG ΑH ΑI AJ ΑK ΑL AM FOREIGN PATENT DOCUMENTS Translation Class Subclass Document Number No 12/15/99 EPO AN EP 0 964 608 A2 ΑO AP AQ AR OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, Etc.) AS AT JECHNOLOGY CENTER R3700 DATE CONSIDERED EXAMINER *EXAMINER: Initial if reference considered, whether copy of this form with next communication to application not citation is in conformance with MPEP 609; Draw line through citation of not in conformance and not considered. Include

EV071550238